



# All Requests for Information

06 Apr 2017

US Army Corps  
of Engineers

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W912DW-16-C-0012 NA

Eastern Environmental Project Office

| RFI No.  | Date Requested           | Date Answered | Requester's Name   | Mod Required ? | RFI Subject - Information Requested   |
|----------|--------------------------|---------------|--------------------|----------------|---|
|          | Date Received            |               | Answer Prepared by | Change No.     | Government Response   |
| RFI-0001 | 03/10/2017<br>03/13/2017 | 03/14/2017    | Spencer Archer     | N/A<br>N/A     | <p>INFORMATION REQUESTED: Lime Type and Supplier - Per the referenced Specification:</p> <p>Lime: High calcium lime for slurry treatment of wastewater shall have the following minimum typical analysis:</p> <ul style="list-style-type: none"> <li>- Total Calcium Oxide, CaO greater than or equal to 90 percent by weight.</li> <li>- Basicity Factor (ASTM) greater than 0.93 percent.</li> <li>- Total Insolubles less than 5 percent by weight.</li> <li>- Size, pebble (ASTM) less than 2-1/2 inch.</li> </ul> <p>The material shall either meet or exceed the specifications for ASTM International (ASTM) for quicklime, hydrated lime, and limestone for chemical uses...</p> <p>Prior notification and approval shall be provided to the Government if the Contractor intends to select a replacement polymer and/or use a different type of lime or lime supplier.</p> <p>However, Specification 01 10 00, Part 5.3.6 (page 105) states:</p> <p style="padding-left: 40px;">The existing Lime System has a design capacity of 160 pounds of CaO (quicklime, dry basis) per minute...</p> <p>Additionally, Specification 01 22 00.00 10, Part 1.1.15 (page 4) states:</p> <p style="padding-left: 40px;">1.1.15 Item 0015 - Hydrated Lime (Unit Rate)<br/>Measurement for this unit price item shall be made by ton of hydrated lime delivered to the facility for use for treatment operations.</p> <p>Please confirm:</p> <ul style="list-style-type: none"> <li>- what type of lime currently is used,</li> <li>- what lime supplier currently is used,</li> <li>- if quicklime, pebble lime, or hydrated lime are required, and</li> <li>- if the analysis requirements provided above are correct.</li> </ul> <p>GOVERNMENT RESPONSE: The Government has reviewed your Request for Information and is providing the following clarification:</p> <p>1.) The term "hydrated" that appears in the Bid Schedule and in Section 01 22 00.00 10, part 1.1.15 is incorrect. The lime that is in use at the Central Treatment Plant (CTP) lime system is pebble quicklime as stated in Section 01 10 00, Part 5.3.6 and as described in the O&amp;M Manual under Appendix Y of the contract. The pebble quicklime is stored in the lime silos and becomes hydrated lime after passing through the existing lime slaker and lime feed system.</p> <p>2.) The analysis requirements specified in Section 01 10 00, Paragraph 7.2.4.3 are correct. Please note the reference in that section to CaO, which is quicklime.</p> <p>3.) The lime supplier that is currently being used is Graymont. The location of the plant for lime that is currently being used for the CTP lime system is Indian Creek near Townsend Montana. This information is included in the O&amp;M Manual under Appendix Y of the contract. The term "hydrated" will be removed from the Bid Schedule and from Section 01 22 00.00 10 by a forthcoming no-cost administrative modification. This is a clarification at no additional cost or impact to the Government.</p> |
| RFI-0002 | 03/10/2017<br>03/13/2017 | 03/28/2017    | Eric Reitter       | N/A<br>N/A     | <p>INFORMATION REQUESTED: Building Information Modeling - We expect to use BIM to develop the building rendering required by the RFP. However, we are unclear as to the extent of BIM Model requirements and the scope of items that should be included in the BIM. Please clarify the government's intent for the use of BIM as it does not appear that BIM is applicable to most scopes of work on the project.</p> <p>GOVERNMENT RESPONSE: The extent of BIM Model requirements and the scope of items that should be included in the BIM can be determined by the Contractor, however, minimum modeling and data requirements, are defined in Section 4 of Specification 01 33 16-F. Section 2.3 of Specification 01 33 16-F also discusses required output from the Model to include Submitted Drawings (e.g., plans, elevations, sections, schedules, details, etc.).</p> <p>The USACE BIM PROJECT EXECUTION PLAN (PxP) Template* and USACE Minimum Modeling Matrix (M3) Template* (01 33 16-F, Paragraphs 2.1.5.2 and 4.1.2, respectively) are attached and should help guide your plans for BIM in accordance with requirements.</p>  |

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|          |                          |               |                    |                | <p>*Source: <a href="https://cadbimcenter.erdc.dren.mil/Default.aspx">https://cadbimcenter.erdc.dren.mil/Default.aspx</a></p> <p>We would expect the scope of items that should be included in the BIM for this project to meet, at least, the minimum modeling and data, as well as output, requirements of Specification 01 33 16-F or an explanation with appropriate rationale be provided in the PxP for Government consideration and approval.</p> <p>Please let us know if you desire a meeting with our BIM experts to either further review these minimum modeling and data and output requirements or provide an opportunity to explain/justify any specific deviations from these requirements in advance of PxP submission.</p>   |
| RFI-0003 | 03/10/2017<br>03/13/2017 | 03/14/2017    | Peter Yuan         | N/A<br>N/A     | <p>INFORMATION REQUESTED: Existing Sludge Pond Capacity - 1) Please provide a revised sludge pond capacity and the CH2M model and/or data used to calculate the existing sludge pond capacity.</p> <p>2) Please provide sludge generation data (flow rates, solids content, changes in Sludge Pond volume over time, etc.) to assist us in estimating the remaining capacity and time to fill the existing Sludge Pond so we can confirm when the new SIA will need to be online.</p> <p>GOVERNMENT RESPONSE: The attached file summarizes existing sludge pond level data from May 2000 to May 2014 and shows CH2M's calculation process to estimate the 29,000 cyd of remaining capacity as of May 2014. In regard to the second part of your RFI requesting sludge generation data, that data is included in the monthly Discharge Monitoring Reports (DMR) which were provided in Appendix P of the solicitation and contract. Current DMR's through December 2016 were provided on CD to AMEC FW at the Post-Award Conference.</p>   |
| RFI-0004 | 03/10/2017<br>03/13/2017 | 03/16/2017    | Koorus Tahghighi   | N/A<br>N/A     | <p>INFORMATION REQUESTED: Use of Groundwater for SBCW Construction - Per the referenced Specification:</p> <p>"The EPA is pursuing a Memorandum of Understanding with the Department of Water Resources of the State of Idaho that will allow use of groundwater for construction of the SBCW. The Contractor shall assume that groundwater extracted from the upper aquifer within the project limits may be used for construction of the SBCW..."</p> <p>The current status of this Memorandum of Understanding is unknown..</p> <p>Please provide a status update on the referenced Memorandum of Understanding and confirm if groundwater extracted from the upper aquifer within the project limits may be used for construction of the SBCW.</p> <p>GOVERNMENT RESPONSE: To the Government's knowledge the status of the Memorandum of Understanding referenced in Section 01 10 00, paragraph 4.3.1.2 is unchanged. This same paragraph provides Amec FW with instruction to assume that groundwater extracted from the upper aquifer within project limits may be used for construction of the SBCW.</p> <p>Per Amec FW's Design Packaging Plan, SD-01, it is the Government's understanding that SBCW construction will occur in 2019 and that access to groundwater extracted from the upper aquifer within the project limits for construction of the SBCW will not be needed until that time. If this understanding is incorrect, please provide clarification.</p> |
| RFI-0005 | 03/10/2017<br>03/13/2017 | 03/28/2017    | David Bean         | N/A<br>N/A     | <p>INFORMATION REQUESTED: Groundwater Flow Model - We are preparing to update/re-calibrate the Groundwater Flow Model and are interested in knowing what data is available from 2012 to present for the Bunker Hill area.</p> <p>Please provide the following daily or monthly data since 2012 (or earlier), if available:</p> <ul style="list-style-type: none"> <li>- Stream flow by stream-reach</li> <li>- Stream stage by stream-reach</li> <li>- Surface water elevations, especially at or near the outfall structure/dissipater</li> <li>- Stream diversions (if any)</li> <li>- Groundwater elevations in monitoring wells</li> <li>- Monitoring well construction details/boring logs</li> <li>- Precipitation data</li> <li>- Run-on and run-off to/from streams</li> <li>- Perc basin recharge (if any)</li> </ul>  |

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|          |                          |               |                    |                | <p>- Groundwater pumping (if any)</p> <p>- Groundwater quality</p> <p>- All historical data sets (stream flow, groundwater elevations, hydraulic conductivity, etc.) used to compile the MicroFEM model.</p> <p>GOVERNMENT RESPONSE: The requested information (excluding publically available information for monitoring well groundwater depth to water and stream gage data) is being transmitted to AmecFW via the USACE AMRDEC website. Reference AMRDEC Package ID 9067959.</p> <p>Data sets and files provided by the Government to AmecFW in response to RFI-0005, Groundwater Flow Model, represent and/or form the basis for information, interpretations, conclusions, data, etc. contained in certain reference documents cited under Specification 01 10 00, Paragraph 1.7, Available Reference Documents; in particular Appendices J, K, L, and M as referenced in the Groundwater Model Calibration and GWCS Operations Optimization portion of 01 10 00 at Paragraph 4.10.1, Additional Supporting Information, as well as Appendix G for well construction information. As such, the disclaimer contained in Specification 01 10 00, Paragraph 1.7, regarding the use of the Available Reference Documents applies and extends to the data sets and files provided in response to RFI-0005.</p> |
| RFI-0006 | 03/10/2017<br>03/13/2017 | 03/15/2017    | David Bean         | N/A<br>N/A     | <p>INFORMATION REQUESTED: Groundwater Flow Model Information Request - We appear to be missing two label files from the CH2M MicroFEM calibration model (RD_NA_BCx5_A4NGVD29_rev2.fpr). There may be other missing files that we are not aware of yet.</p> <p>Please provide the following label files from the MicroFEM calibration model(RD_NA_BCx5_A4NGVD29_rev2.fpr).</p> <p>- East_Box_Subset_Flowlines.lb</p> <p>- All_Wells_Gages.lb</p> <p>GOVERNMENT RESPONSE: In response to this RFI, Rod Zion provided the missing label files to Amec via email on 15 March 2017 due to the fact that RMS would not upload the file type associated with those label files.</p>   |
| RFI-0007 | 03/14/2017<br>03/15/2017 | 03/16/2017    | Chris Miele        | N/A<br>N/A     | <p>INFORMATION REQUESTED: Site Contaminant Data - Site construction-related fieldwork needs to proceed with appropriate controls to protect site workers and the adjacent public from site contaminants that may be disturbed during remedial construction. Control selection depends on site contaminant form and concentration for each work area. These data do not appear to be available in documentation provided to date.</p> <p>GOVERNMENT RESPONSE: Contaminant of concern information relevant to the site is discussed in Section 01 10 00 as well as the various appendices included with the contract. Empirical contaminant data requested in this RFI is available directly to Amec FW via the Institutional Controls Program managed by Panhandle Health District as well as publically available locations such as <a href="https://yosemite.epa.gov/R10/CLEANUP.NSF/bh/bunker+hill+superfund+site+community+resources">https://yosemite.epa.gov/R10/CLEANUP.NSF/bh/bunker+hill+superfund+site+community+resources</a>.</p>   |
| RFI-0008 | 03/15/2017<br>03/16/2017 | 03/16/2017    | Marie Bevier       | N/A<br>N/A     | <p>INFORMATION REQUESTED: Sampling and Analysis Plan / Quality Assurance Project Plan - Please provide copies of the most current sampling and analysis plans, quality assurance project plans, or similar project quality plans for analytical sample collection and ongoing O&amp;M operations.</p> <p>GOVERNMENT RESPONSE: A copy of the Sampling and Analysis Plan (including the Quality Assurance Project Plan) for the current O&amp;M contract with Ferguson Contracting is attached to this RFI response.</p>   |
| RFI-0009 | 03/16/2017<br>03/20/2017 | 03/20/2017    | Spencer Archer     | N/A<br>N/A     | <p>INFORMATION REQUESTED: Updated "Inventory of Government Owned Equipment" - Per the referenced Specification:</p> <p>Inventory of Government Owned Equipment (Attachment O) that is available at the site including spare and critical reserve items for O&amp;M services for Existing Contractor. Note that this inventory is current as of November 2014 and will be revised during after NTP.</p> <p>GOVERNMENT RESPONSE: Please see attached inventory list, which was updated on January 12, 2017.</p>  |
| RFI-0010 | 03/29/2017               |               | Spencer Archer     | N/A<br>N/A     | <p>INFORMATION REQUESTED: Previous CTP Testing Documents - During our post-award meeting, there was some discussion of previous testing conducted at the site by CH2M that may benefit our process engineers.</p> <p>Please provide available documents from previous testing associated with the following:</p> <ol style="list-style-type: none"> <li>1. Filter testing</li> <li>2. HDS testing of existing CTP</li> </ol>   |

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